UNITED AIR LINES
TOXICOLOGICAL AND SAFE HANDLING DATA
(FORM APPROVED BY OSHA)

Bas - Hardon FEB 0 4. 1982

DPM66

	PEB 0 4 1982 0 700
	FOR UAL USE ONLY
	UAL REF. NO. 0175-841
	UMS NO. PAI3782
	PRODUCT URAFILM TFE ANTI CHAFE
	DESIGNATION CONTING
	DATE
$\overline{}$	MENCIATURE

SECT	TION I - SOUR	CE AND N	OMENC	LATUR	2		
MANUFACTURER'S NAME		EMERGENCY TELEPHONE NO.					
Advanced Coatings & Ch	1	(213) 579-6270					
ADDRESS (Number, Street, 2213 N. Tyler Avenue.	City, State, ZI So. El Mont	P Code) e. Cali	fornia	91,733	Thermal Commence		4
TRADE NAME AND SYNONY	MS URAF	ILM	CHEMICAL FAMILY Polyurethane				
CHEMICAL NAME AND SYN	ONYMS Polyu	rethane	FORM		3-1W-6		1
SE	CTION'II - HA	ZARDOUS	INGREI	DIENTS		-3#LW#ZI	
BASIC MATERIAL	APPROXIMA' OR MAXIMUI % WX. OR VC	TE ESTA. VI O	BLISHED SHA			LC 50 SPECIES	SICONO
Terminated Isocyanate	13	N.	The state of the Control of the Cont	, O 1 W 1 1 1	i Dittoti.	DE BOIDE	100110.
Prepolymer	14	N.		O. N. A.			
Butyl Acetate	7	N.		10 - 10 - 10			
Methyl Ethyl Ketone	11.5 11.5		E				
Butyl Cellosolve	17		E: []	. ig .,	VELOUS AND		
Xylol	2 1		E	5 11994			
Toluol	· · · · · · · · · · · · · · · · · · ·	N.				ALL NOOF	
			· .	Assault -			1
				igisalisi.			
	SECTION	- physr	CATEDAT	ΓΔ			
BOILING POINT N.D *F VAPOR PRESSURE N.D. mm						mm Hg.	
MELTING POINT	VAPOR DENSITY (Air=1) x						
SPECIFIC GRAVITY (H20=1)	1.14	EVAPO	RATION	RATE (N.D.	=1)	
SOLUBILITY IN WATER Pt.		VOLATILE % Vol. % Wt.					
APPEARANCE AND ODOR							
SECTION	IV - FIRE ANI	EXPLO	SION HA	ZARDI	АТА		
FLASH POINT	TOC	(less,): FLA	MMABLE	UPP	CR	
METHOD USED Hardener 90°		F. TOC 10% (EXPLOSIVE) LOWER			ER		
EXTINGUISHING MEDIA Water fog foam	- C02 or d	ry chem	ical /				7.7
SPECIAL FIRE FIGHTING PROCEDURES None							
UNUSUAL FIRE AND EXPLOSION HAZARDS CORC	entrated vai	oors ma	y be ex	risola	7 6 .		
JMB 2013NS 9/72			7				



TOXIC
LEVEL N.A. CARCINGENIC

PRINCIPLE ROUTES SKIN AND EYE
OF ABSORBTION IRRITATION

RELEVANT SYMPTOMS
OF EXPOSURE

EFFECTS OF
CHRONIC EXPOSURE Dizziness & possible nausea

EMERGENCY ANDFor inhalation remove victim from concentrated area &
FIRST AID consult physician. For eye contact irrigate eyes with water
PROCEDURES & consult physician. For skin wash thoroughly with water.

	SECTION VI - REACTIVITY DATA
CONDITIONS CONTRIBUTO INSTABILITY	TING Stable
CONDITIONS CONTRIBUTO HAZARDOUS POLYM	
INCOMPATABILITY (Materials to Avoid)	one
	SITION Carbon monoxide & dioxide, nitrogen dioxide and hydrogen cyanide

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN Remove all sources of ignition. Clean up may be CASE MATERIAL IS accomplished with cellosolve acetate and/or MEK or RELEASED OR SPILLED other similar solvents.

WASTE DISPOSAL

METHOD Any solid residue may be burned

	IAL PROTECTION INFORMATION
VENTILATION REQUIREMENTS	PROTECTIVE EQUIPMENT (Specify Types)
LOCAL EXHAUST X	EYE goggles recommended
MECHANICAL (General)	GLOVES rubber ,
SPECIAL	RESPIRATOR yes
OTHER PROTECTIVE	
EQUIPMENT Remove all ign	ition sources

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE Shelf Life 1 yr. date of mfg. when stored between TAKEN IN HANDLING 40°F - 100°F. Do not contaminate with water, AND STORAGE alcohols - amines or acids.

OTHER PRECAUTIONS Do not store near potential sources of ignition

Signature and Title	Pres.	Address2213 N.	Tylor Avenue	
Dato 1.0-27-72		So. El. M	onto, Callifornia	91.733
UMB 2013 1NS 9/72				

MA TRIAL SAFETY DATA HEET FEB 0 4 1982 NPCA 1-7

	FOR COATINGS, RE					•
2/15/74	(Approved by U.S. Departme	nt of Labor "Essentia	ally Similar" to Form	OSHA-20)	M-506	16 -
The state of the s		Section I				
MANUFACTURER'S NAME The De	xter Corporation -	Midland Div	vision			
STREET ADDRESS 31500 Ha	ayman St c	TY, STATE, AND ZIF	CODE Hay	yward, CA	94544	
EMERGENCY TELEPHONE NO.						
PRODUCT CLASS (415) 47	1-7171	Night (415)	828-2753 FACTURERS COD	E IDENTIFICATIO)N	
Urethane TRADE NAME	е					
	O Lt. Stb. White Te	eflon	8-W-2	4 /10-C-81		
	Section II — HA	ZARDOUS	INGREDIE	NTS		
INGREDIENT		PERCENT by wt	Tt. PPM	.V mg/M³	LEL	VAPOR 2 OP C MM H
Cellosolve Acetate Methyl Ethyl Ketone Xylene Monomeric Isocyanate		30-40 5-10 0-5 0.5>	100 200 100 0.02	540 590 435 0, 14	1.7 1.8 1.1	2.0 70.21 -
	Soction III	PHYSIC	AL DATA			
BOILING RANGE 176° F-313° F	Section III	- PHYSICA		HEAVIER	LIGHTER.	TUAN AID
	SLOWER, THAN ETHER	PERCENT VOLATI		WEIGHT PER GALLON	9.6 lb	THOIS AID
Se	ection IV — FIRE AI	VD EXPLOS	ION HAZA	RD DATA		
Red label - flammable, be EXTINGUISHING MEDIA Use National Fire Protect chemical or foam) designe	tion Association (N		24°F (T.		on dioxid	LEL e II e, dry
UNUSUAL FIRE AND EXPLOSION HAZARDS Keep containers tightly of the container of the contain	may explode when tive. Water may b	exposed to	extreme hea	at. Do not	apply to	not hot

If water is used, fog nozzles are preferrable.

Section V — HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE See Section II
EFFECTS OF OVEREXPOSURE Inhalation: Anesthetic. Trritation of the respiratory tract or acute
nervous system depression characterized by headache, dizziness, staggering gait, confusion,
unconsciousness or coma.
Skin or Eye Contact: Primary irritation.
EMERGENCY AND FIRST AID PROCEDURES Fumes: Remove from exposure. Restore breathing. Keep warm and
quiet. Notify a physician. Splash (eyes): Flush immediately with copious quantities of
running water for at least 15 minutes. Take to a physician for definitive medical treatment.
Splash (skin): Remove with soap and water. Remove contaminated clothing.
Section VI — REACTIVITY DATA
STABILIT UNSTABLE CONDITIONS TO AVOID NA
INCOMPATABILITY (Materials to avoid)
HAZARDOUS DECOMPOSITION PRODUCTS May produce hazardous fumes when heated to decomposition as in
welding. Fumes may contain carbon monoxide, oxides of nitrogen and others.
HAZARDOUS POLYMERIZATION MAY OCCUR TO WILL NOT OCCUR
HAZARDOUS POLYMERIZATION MAY OCCUR WILL NOT OCCUR CNDITIONS TO AVOID NA
Section VII — SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all sources of ignition (flames, hot surfaces,
and electrical, static, or frictional sparks.) Avoid breathing vapors. Ventilate area. Remove
with inert absorbent and non-sparking tools.
Dispose of in accordance with local, state and federal regulations. Do not incincerate closed
Section VIII — SPECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION In outdoor or open areas use Bureau of Mines approved mechanical filter
respirator to remove solid air borne particles of overspray during spray application. In
restricted ventilation areas use Bureau of Mines approved chemical-mechanical filters designed
to remove a combination of particulate and gas and vapor. In confined areas use Bureau of
Mines approved air line type respirators or hoods.
VENTILATION Provide general dilution on logal orband wontilation in malana and and
reported general dilucion of local exhaust ventilation in volume and pattern to keep
TLV of most hazardous ingredient in Section II below acceptable limit, LEL in Section IV below stated limit, and to remove decomposition products during welding or flame cutting on surfaces
coated with this product.
PROTECTIVE GLOVES Required for prolonged or repeated contact.
EYE PROTECTION Use safety eyewear designed to protect against splash of liquids.
OTHER PROTECTIVE EQUIPMENT Prevent prolonged skin contact with contaminated clothing.
Section IX — SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Do not store above 120°F. Store large quantities in buildings designed for storage of
NFPA Class I flammable liquids.
OTHER PRECAUTIONS
Do not take internally. Containers should be grounded when pouring. Avoid free fall of
liquid in excess of few inches. Do not flame cut, braze, or weld without U. S. Bureau of

Mines approved respirator or appropriate ventilation.

MATERIAL SAFETY DATA THEET

FOR COATINGS, RESINS AND RELATED MATERIALS

FEB 0 4 1982

LATE OF PREP.

2/15/74

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

ppm-5066 -

Section I

MANUFACTURER'S NAME

The Dexter Corp - Midland Division

STREET ADDRESS

31500 Hayman St

CITY, STATE, AND ZIP CODE

Hayward, CA 94544

EMERGENCY TELEPHONE NO.

Day (415) 471-7171

Night (415) 828-2753

PRODUCT CLASS

Urethane

MANUFACTURERS CODE IDENTIFICATION

7-G-1 10-C-45

TRADE NAME

Laminar® X-500 Safety Green (non-lead)

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT by wt	TLV PPM mg/M³		LEL	VAPOR PRESSURE	
Cellosolve Acetate Toluene	30-40 0-5	100 100	540 375	1.7 1.2	20°C mm Hg	
Xylene	0-5	100	435	1.1		
Methyl Ethyl Ketone	5-10	200	590	1.8	70.21	
thyl Acetate	20-30	400	1,400	2.2	74.4	

Section III — PHYSICAL DATA

BOILING RANGE

171°F - 313°F

VAPOR DENSITY

HEAVIER

LIGHTER, THAN AIR

EVAPORATION RATE

FASTER

Red label - flammable below 80° F

X SLOWER, THAN ETHER

PERCENT VOLATILE
BY VOLUME

WEIGHT PER

8.8 lbs

Section IV — FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY

FLASH POINT

24° F (T.C.C.)

See II

EXTINGUISHING MEDIA

Use National Fire Protection Association (NFPA) Class B Extinguishers (carbon dioxide, dry chemical or foam) designed to extinguish NFPA Class 1B flammable liquid fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat. Do not apply to hot urfaces.

Water spray maybe ineffective. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

If water is used, fog nozzles are preferrable.

Section V — HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE See Section II FFFECTS OF OVEREXPOSURE Inhalation: Anesthetic. Trritation of the respiratory tract or acute
ervous system depression characterized by headache, dizziness, staggering gait, confusion, unconsciousness or coma.
Skin or Eye Contact: Primary irritation.
EMERGENCY AND FIRST AID PROCEDURES Fumes: Remove from exposure. Restore breathing. Keep warm and quiet. Notify a physician. Splash (eyes): Flush immediately with copious quantities of running water for at least 15 minutes. Take to a physician for definitive medical treatment. Splash (skin): Remove with soap and water. Remove contaminated clothing.
Section VI — REACTIVITY DATA
STABILITY UNSTABLE CONDITIONS TO AVOID NA HICOMPATABILITY (Materials to avoid)
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
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waste Disposal Method accordance with local, state and federal regulations. Do not incinerate losed containers.
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PROTECTIVE GLOVES Required for prolonged or repeated contact.
Use safety eyewear designed to protect against splash of liquids.
OTHER PROTECTIVE EQUIPMENT Prevent prolonged skin contact with contaminated clothing.
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Do not store above 120° F. Store large quantities in buildings designed for storage of
NFPA Class I flammable liquids.
Do not take internally. Containers should be grounded when pouring. Avoid free fall of liquid in excess of few inches. Do not flame cut, braze, or weld without U.S. Bureau of Mines

approved respirator or appropriate ventilation.